

| | | | | |
|---|------------------------------------|----------------------------------|-------------------------------|-----------|
| Form PTO-892 U.S. Department of Commerce | Serial Number 09/192,167 | Group Art Unit 1623 | Attachment to Paper Number | 25 |
| Notice of References Cited | APPLICANT(S) | | | |
| | Meade et al. | | | |

U. S. Patent Documents

| * | | DOCUMENT NO. | DATE | NAME | CLASS | SUBCLASS | Filing Date If Appropriate |
|---|---|--------------|----------|---------------|-------|----------|----------------------------|
| * | A | 6,096,273 A | 08/01/00 | Kayyem et al. | 422 | 068.100 | |

Foreign Patent Documents

| * | | DOCUMENT NO. | DATE | COUNTRY | NAME | CLASS | SUB-CLASS | | |
|---|---|----------------|----------|---------------|----------------|-------|-----------|--|--|
| * | L | WO 95/35102 A1 | 12/28/95 | World(WO/PCT) | NEXSTAR Pharm. | ----- | ----- | | |

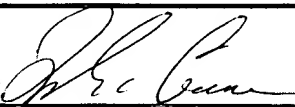
Other References (Including Author, Title, Date, Pertinent Pages, etc.)

| | | |
|---|----------------|--|
| * | R | McGee et al. (I), "Novel Nucleosides via Intramolecular Functionalization of 2,2'-Anhydrouridine Derivatives," <i>Tetrahedron Letters</i> , 37(12), 1995-1998 (March 18, 1996). |
| * | S | Sebesta et al., "2'-Deoxy-2'-Alkoxyaminouridines: Novel 2'-Substituted Uridines Prepared by Intramolecular Nucleophilic Ring Opening of 2,2'-O-Anhydrouridines," <i>Tetrahedron</i> , 52(46), 14385-14402 (November 11, 1996). |
| * | T [†] | Moffatt, "Chemical Transformations of the Sugar Moiety of Nucleosides," published in <i>Nucleoside Analogues</i> , Moffatt et al. (eds.), Plenum Press, New York, NY, 1979, only pages 71-164 supplied.††† |
| * | U | Krider et al. (I), "2'-Modified Nucleosides for Site-Specific Labeling of Oligonucleotides," <i>Bioconjugate Chemistry</i> , 13(1), 155-162 (2002); WEB publ. on December 8, 2001.†† |

† Month of publication data is unavailable. Issue Number information is provided whenever possible following the volume number in parentheses.

†† Copy supplied by applicant.

††† Copy supplied by applicant; cited on PTO-1449 as refs. #7 & #8.

| | | |
|---|-------------------------|---|
| EXAMINER L. E. Crane  | DATE 05/29/03 | page 1 of 5 ¥:Reference not presently available. |
| *A copy of this reference is not being furnished with this office action. (See Manual of Patent Examining Procedure, Section 707.05(a).) | | |

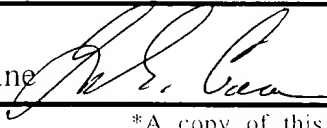
| | | | |
|---|------------------------------------|----------------------------------|--|
| Form PTO-892 U.S. Department of Commerce | Serial Number 09/192,167 | Group Art Unit 1623 | Attachment to Paper Number 25 |
| Notice of References Cited | APPLICANT(S) | | |
| | Meade et al. | | |

Other References (Including Author, Title, Date, Pertinent Pages, etc.)

| | | |
|---|-----------------------|--|
| * | V | Krider et al. (II) , "Automated Synthesis of 3'-Metalated Oligonucleotides," <i>Inorganic Chemistry</i> , 40(16), 4002-4009 (2001); WEB publ. on June 6, 2001. ^{††} |
| * | W | Rack et al. , "Spectroscopy and Electrochemistry of Ruthenium-Modified Nucleic Acids: Design of a Novel Metal-Binding Nucleoside," <i>J. American Chemical Society</i> , 122(36), 6287-6288 (2000); WEB publ. on June 13, 2000). ^{††} |
| * | X | Frank et al. , "5'-Modification of Duplex DNA with a Ruthenium Electron Donor-Acceptor Pair Using Solid-Phase DNA Synthesis," <i>Inorganic Chemistry</i> , 42(4), 1039-1044 (2003); WEB publ. on January 21, 2003. ^{††} |
| * | Y[†] | McGee et al. (II) , "2'-Amino-2'-deoxyuridine <i>via</i> an Intramolecular Cyclization of a Trichloroacetimidate," <i>Journal of Organic Chemistry</i> , 61(2), 779-785 (1996). ^{††} |
| * | Z[†] | Ferris et al. , "Reaction of Uridine and Uridine 5'-Phosphate with Diiminosuccinonitrile and Cyanogen Bromide in Aqueous Solution. Direct Synthesis of the 2,2'-Anhydronucleoside Linkage at 2°C," <i>Journal of Organic Chemistry</i> , 49(12), 2121-2125 (1984). ^{††} |
| * | RA[†] | Meade et al. , "Electron Transfer through DNA: Site-Specific Modification of Duplex DNA with Ruthenium Donors and Acceptors," <i>Angewandte Chemie Intl. Ed.</i> , 34(3), 352-354 (1995). ^{††} |

[†] Month of publication data is unavailable. Issue Number information is provided whenever possible following the volume number in parentheses.

^{††} Copy supplied by applicant.

| | | |
|---|-------------------------|--|
| EXAMINER L. E. Crane  | DATE 05/29/03 | page 2 of 5 ¥:Reference not presently available. |
| *A copy of this reference is not being furnished with this office action. (See Manual of Patent Examining Procedure, Section 707.05(a).) | | |


| | | | |
|---|------------------------------------|----------------------------------|--|
| Form PTO-892 U.S. Department of Commerce | Serial Number 09/192,167 | Group Art Unit 1623 | Attachment to Paper Number 25 |
| Notice of References Cited | APPLICANT(S) | | |
| | Meade et al. | | |

Other References (Including Author, Title, Date, Pertinent Pages, etc.)

| | | |
|---|-----|--|
| * | SA | Yu et al., "2'-Ribose-Ferrocene Oligonucleotides for Electronic Detection of Nucleic Acids," <i>Journal of Organic Chemistry</i> , 66(9), 2937-2942 (2001); WEB publ. on April 12, 2001.†† |
| * | TA | Anne et al., "Synthesis of the First Ferrocene-Labeled Dideoxynucleotide and Its Use for 3'-Redox End Labeling of 5'-Modified Single-Stranded Oligonucleotides," <i>Bioconjugate Chemistry</i> , 12(3), 396-495 (2001); WEB publ. on April 14, 2001.†† |
| * | UA† | David et al., "Syntheses of the Two Epimeric 5'-Methylcytidines, their 5'-Phosphates and [5- ³ H]-5'-pyrophosphates, and the Two 5'-Methyldeoxycytidines. A Novel Cytosine Anhydro-nucleoside with Two Oxygen Bridges between the Base and the Sugar," <i>J. Chemical Society, Perkin Transactions I</i> , 1982, 385-393 (1982).†† |
| * | VA† | Qiu et al., "3,5'-Anhydrosynadenol: A Polycyclic Anhydronucleoside Analogue," <i>Angewandte Chemie Intl. Ed.</i> , 37(10), 1440-1441 (1998).†† |
| * | WA† | Bianchini et al., "Electron-Rich Iridium Complexes with Mixed-Donor Polydentate Ligands. Chemoselective Catalysts in Hydrogen-Transfer Reduction of α,β -Unsaturated Ketones," <i>J. American Chemical Society</i> , 112(25), 9190-9197 (1990).†† |

† Month of publication data is unavailable. Issue Number information is provided whenever possible following the volume number in parentheses.

†† Copy supplied by applicant.

| | | |
|---|-------------------------|---|
| EXAMINER L. E. Crane  | DATE 05/29/03 | page 3 of 5 ¥:Reference not presently available. |
| *A copy of this reference is not being furnished with this office action. (See Manual of Patent Examining Procedure, Section 707.05(a).) | | |

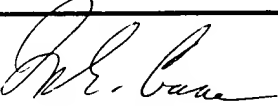
| | | | |
|---|------------------------------------|----------------------------------|--|
| Form PTO-892 U.S. Department of Commerce | Serial Number 09/192,167 | Group Art Unit 1623 | Attachment to Paper Number 25 |
| Notice of References Cited | APPLICANT(S) | | |
| | Meade et al. | | |

Other References (Including Author, Title, Date, Pertinent Pages, etc.)

| | | |
|---|-----|--|
| * | XA† | Klink et al. , "Synergistic Complexation of Eu ⁺³ by a Polydentate Ligand and a Bidentate Antenna to Obtain Ternary Complexes with High Luminescence Quantum Yields," <i>Journal of Physical Chemistry A</i> , 106(15), 3681-3689 (2002).†† |
| * | YA† | Browne et al. , "Polydentate Ligand Construction: A Re-Examination of an Intramolecular Condensation Reaction," <i>J. Chemical Society, Dalton Transactions</i> , 2001, 3513-3519 (2001).†† |
| * | ZA† | Mizuno et al. , "The Synthesis of Dinucleoside Phosphates of Natural Linkages by the 'Anhydronucleoside Method,' " <i>Tetrahedron Letters</i> , (Issue No. 50), 4579-4584 (1965).†† |
| * | RB† | Robins et al. , "Nucleic Acid Related Compounds. 19. Concerning the Mechanism of Formation of '2,3'-Imino-1-(β-D-lyxofuranosyl)uracil' [2-amino-1-(3-deoxy-β-lyxofuranosyl)-4-pyrimidinone-N ² ->3'-anhydronucleoside] from O ² ->2'-Cyclonucleosides and 'Ammonium Azide,' " <i>Journal of Organic Chemistry</i> , 41(10), 1886-1887 (1976).†† |
| * | SB† | Kaneko et al. , "Synthesis of 8,2'-Anhydronucleosides of Purine-8-thiol [or of 8,2'-Anhydro-(2'-thionucleosides)] by Use of Diphenyl Carbonate as the Cyclizing Agent," Chapter 103 in <u>Nucleic Acid Chemistry, Improved and New Synthetic Procedures, Methods and Techniques, Part Two</u> , Townsend & Tipson (eds.), John Wiley & Sons, New York, NY, 1978, only pages 595-599 supplied.†† |

† Month of publication data is unavailable. Issue Number information is provided whenever possible following the volume number in parentheses.

†† Copy supplied by applicant.

| | | |
|---|-------------------------|--|
| EXAMINER L. E. Crane  | DATE 05/29/03 | page 4 of 5 ¥:Reference not presently available. |
| *A copy of this reference is not being furnished with this office action. (See Manual of Patent Examining Procedure, Section 707.05(a).) | | |

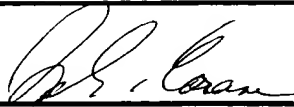
| | | | | |
|---|------------------------------------|----------------------------------|-------------------------------|-----------|
| Form PTO-892 U.S. Department of Commerce | Serial Number 09/192,167 | Group Art Unit 1623 | Attachment to Paper Number | 25 |
| Notice of References Cited | APPLICANT(S) | | | |
| | Meade et al. | | | |

Other References (Including Author, Title, Date, Pertinent Pages, etc.)

| | | |
|---|-----|--|
| * | TB† | Jung et al. , "Novel Lewis Acid-Catalyzed Rearrangement of a Sugar-Base Hybrid to Afford an Anhydronucleoside," <i>Nucleosides & Nucleotides</i> , 17(12), 2383-2387 (1998).†† |
| | UB† | Goodman , "Chemical Syntheses and Transformations of Nucleosides," Chapter 2 in <u>Basic Principles in Nucleic Acid Chemistry, Volume 1</u> , P. O. P. Ts'o (ed.), Academic Press, New York, NY, 1974; only pages 93, 170-190 and 202-208 supplied. |
| | VB† | Kochetkov et al. (eds.) , <u>Organic Chemistry of Nucleic Acids, Parts A and B</u> , Plenum Press, New York, NY, published 1971 and 1972, respectively; only pages 113, 114, 115, 271, 289, 371, 392 and 399 supplied. |

† Month of publication data is unavailable. Issue Number information is provided whenever possible following the volume number in parentheses.

†† Copy supplied by applicant.

| | | |
|---|-------------------------|--|
| EXAMINER L. E. Crane  | DATE 05/29/03 | page 5 of 5 ¥:Reference not presently available. |
| *A copy of this reference is not being furnished with this office action. (See Manual of Patent Examining Procedure, Section 707.05(a).) | | |